

# Car collision prevention apparatus and method using dual processor and automatic sensor switching function

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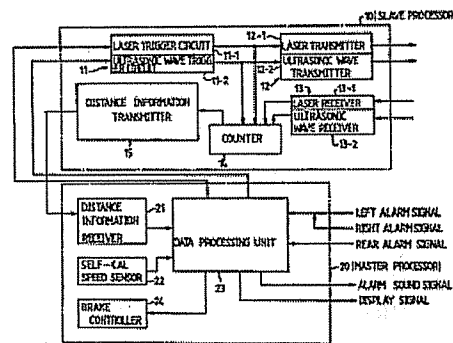
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Car collision prevention apparatus and method comprises a slave processor for transmitting and receiving a laser beam or an ultrasonic wave signal to extract distance information between a car and a car in front, and a master processor for comparing the extracted distance information from the slave processor with a safety distance between the car and the front car based on a car speed and performing car accelerating or decelerating and alarm functions in accordance with the compared result. The slave processor comprises a long-distance sensing laser sensor and a short-distance sensing ultrasonic wave sensor disposed in a front side of the car, the long-distance sensing laser sensor consisting of a laser trigger circuit, a laser transmitter and a laser receiver, the short-distance sensing ultrasonic wave sensor consisting of an ultrasonic wave trigger circuit, an ultrasonic wave transmitter and an ultrasonic wave receiver. The long-distance sensing laser sensor is driven in long-distance mode of the car in which the car speed is higher than a reference speed. The short-distance sensing ultrasonic wave sensor is driven in short-distance mode of the car in which the car speed is lower than the reference speed.



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